Integrating Healthy Food Access into Pedestrian Planning

Mike Zelek, MPH
Social Research Associate
Chatham County Public Health Department
Pittsboro, NC

2014 APHA

New Orleans, LA



Leading the Charge to a Healthier Chatham.

Disclosure

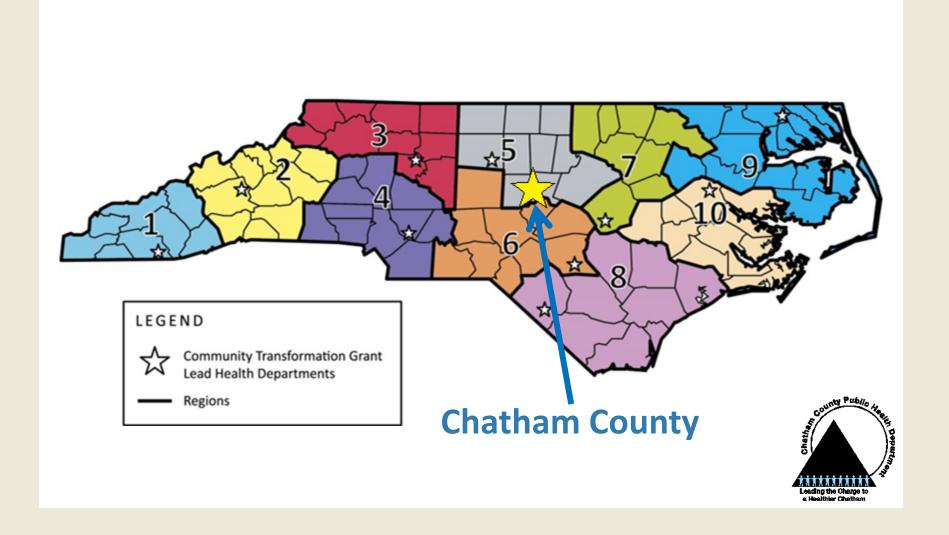
 The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

No relationships to disclose

Session Objectives

- Understand how to assess healthy food availability in the community
- Identify nontraditional partners that can impact the community's health
- Identify ways to incorporate health into local city planning efforts

Where we are



Where we really are

- Obesity is top health concern in Chatham
- Many residents lack access to recreation facilities and healthy food options
- Obesity epidemic not unique to Chatham

Where we really are

- Obesity is top health concern in Chatham
- Many residents lack access to recreation facilities and healthy food options
- Obesity epidemic not unique to Chatham

Innovative, diverse strategies and partnerships are necessary to tackle such a widespread problem

Environment affects Health

- Health is determined by both internal and external factors
- Individual choices are influenced by the environment in which a person lives
- Health can be built into (or out of) a community



Health and Environment

- Health is determined by both internal and external factors
- Individual choices are influenced by the environment in which a person lives
- Health can be built into (or out of) a community

Link between planning and public health



Planning and Public Health

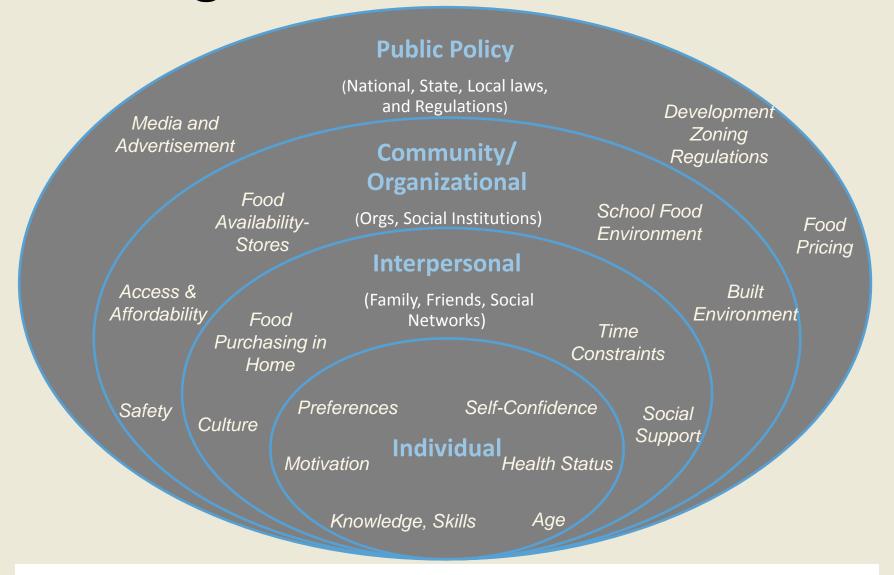
- Planning in the US originated to deal with public health issues
- Over time, planning has come to focus on land use and transportation, public health on handling health and safety concerns
- With the link between planning and public health, urban design and chronic disease, two fields are coming back together

Planning and Public Health

"Across the U.S., local governments are beginning to include goals and objectives that promote public health into their comprehensive plans. These long-term plans impact how people make choices of where to live and how to get around, their ability to access healthy foods and opportunities for physical activity, and affect broader issues of social equity, clean air and water, and more."

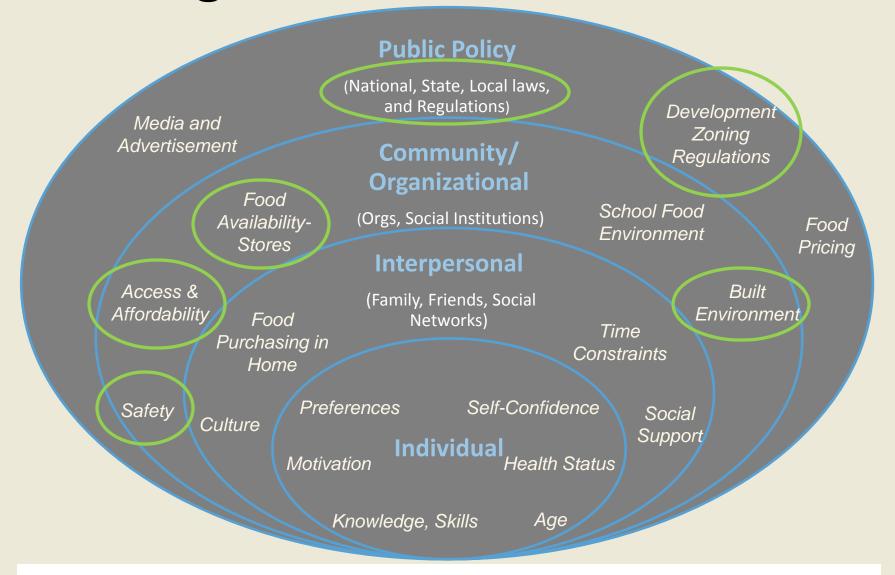
-American Planning Association

Taking a Broader look at Health



Social Ecological Framework

Taking a Broader look at Health



Social Ecological Framework

IT TAKES A COMMUNITY

Healthy Community, Healthy People Healthy Chatham





It takes a community to build health Piktochart

CTG in NC

- Focused on community design and policylevel interventions on health
- Funded over 50 comprehensive and allied plans across the state that incorporate health
- Enabled development of food policy councils, supported tobacco policies, and promoted healthy local foods

Transforming
For a healthier North Carolina

Funded this project

Project Overview

 Led assessment of all food vendors in Chatham County to determine availability of healthy food options

 Partnered with the Town of Siler City on Pedestrian Master Plan

Healthy Food Assessment

- Had assistance from UNC students
- Develop Survey Instrument
 Adapted survey instrument from existing examples
 - Food Retail Outlet Survey Tool (FROST)
 - Nutrition Environment Measures Survey (NEMS)





Healthy Food Assessment

Locate and survey all food stores in county

Total of 82 Stores

- 41 Corner Stores (with Gas)
- 11 Supermarkets/Grocery Stores
- 7 Dollar Stores
- 7 Roadside Stands
- 6 Tiendas
- 5 Farmer's Markets
- 4 Pharmacies
- 1 Corner Store (No Gas)



Healthy Foods Assessment

- Devise metrics to categorize stores based on MyPlate and fresh produce
 - 1) Availability of fresh fruits and vegetables
 3 Categories (none, 1-4 types, 5 or more types)
 using USDA Recommendations
 - 2) Availability of ingredients for a MyPlate meal 2 Categories (fulfills MyPlate, does not fulfill MyPlate)

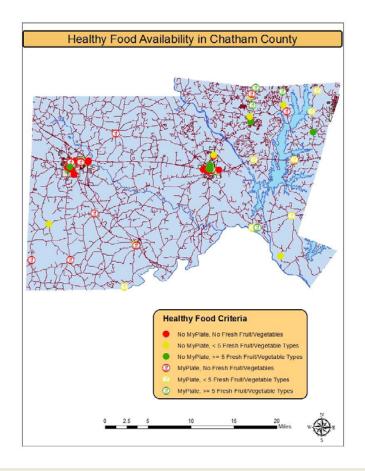
Healthy Foods Assessment

Healthy Food Criteria

- No MyPlate, No Fresh Fruit/Vegetables
- No MyPlate, < 5 Fresh Fruit/Vegetable Types</p>
- No MyPlate, >= 5 Fresh Fruit/Vegetable Types
- MyPlate, No Fresh Fruit/Vegetables
- MyPlate, < 5 Fresh Fruit/Vegetable Types</p>
- MyPlate, >= 5 Fresh Fruit/Vegetable Types

Healthy Foods Assessment

Map and categorize stores



Chathamnc.org/maps

Departments & Programs / Hea

Departments & Programs

Health

About the Health Department & Feedback

Most Recent Community Health Assessment

2012-2013 Seasonal Flu Information

Board of Health

Administration

Animal Control

Clinical Services

Community and Family Health Connections

Community Health and Surveillance Division

Environmental Health

Health Department News

Health Department Community Programs

Health Department Success Stories

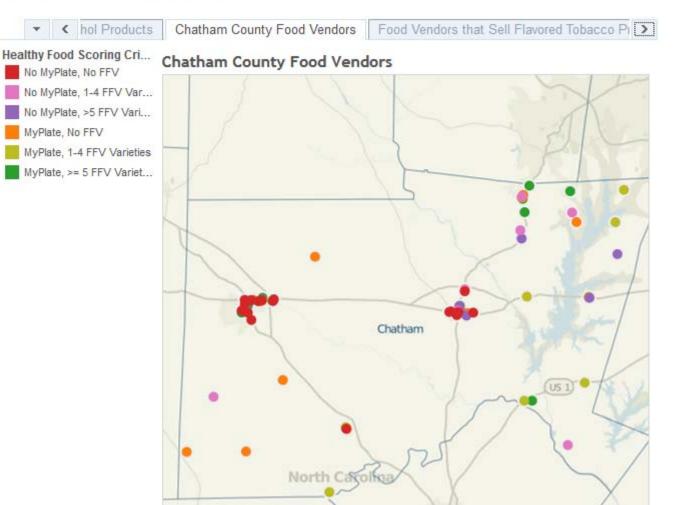
Health Information and Statistics Links

Health Reports & Documents

Chatham County Maps

No MyPlate, No FFV

MyPlate, No FFV



Siler City Ped Plan

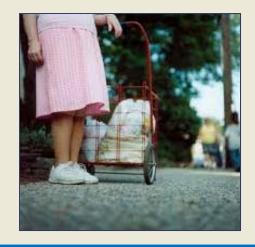
- At time of food assessment, Town of Siler
 City was in process of creating a Pedestrian
 Master Plan
- Met with Siler City and Alta Planning + Design staff to discuss CCPHD collaboration in plan
- Looked for new ways to incorporate health into plan
- Few examples from other cities

Making the Connection





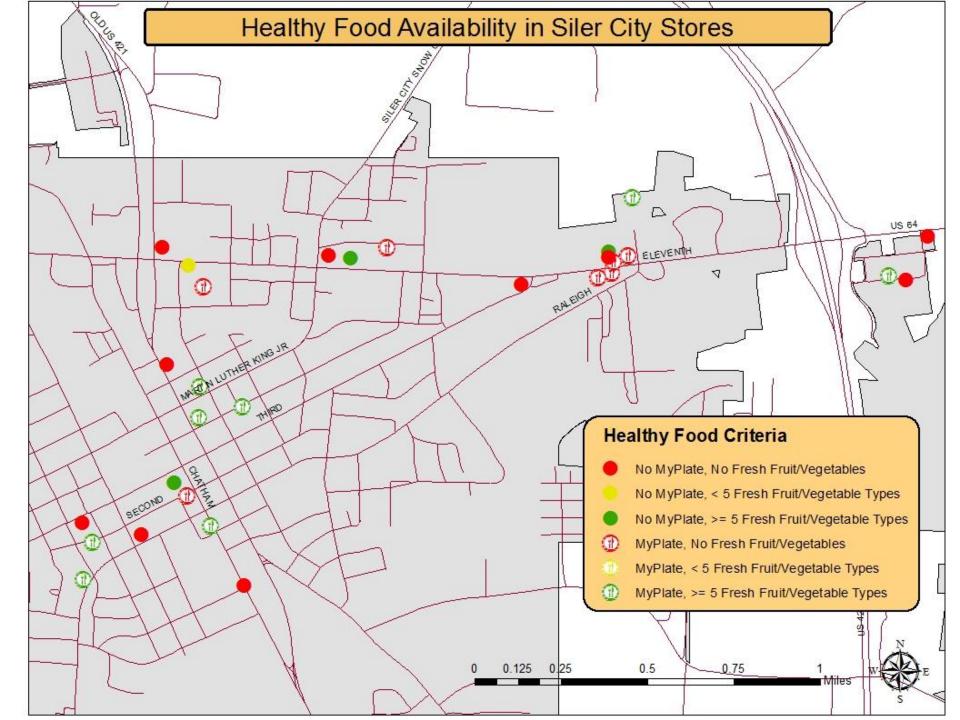




Default Pedestrian Plan Model

Healthy Food Store Inventory

A Siler City with more safe places to walk and improved access to healthy food





Making the Connection

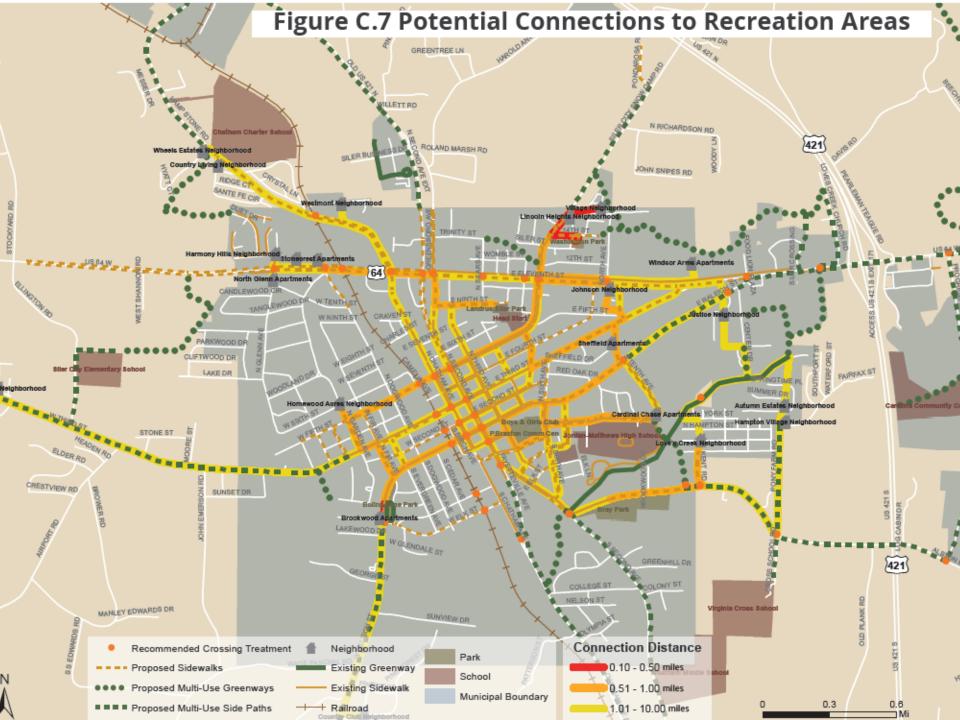
	Top Tier for Healthy Foods								
Neighborhood	Compare Foods	Food Lion	La Jalisco #1	Piggly Wiggly	Tienda El Centro	Tienda La Posadita	Tienda Loma Bonita	Walmart	
Autumn Estates Neighborhood	2.6	1.2	2.3	2.6	2.2	2.1	2.4	1.4	
Brookwood Apartments	0.3	2.2	1.0	0.2	0.6	1.0	1.0	3.1	
Cardinal Chase Apartments	1.4	1.1	1.1	1.4	1.0	0.9	1.2	2.0	
Cateland Place Apartments	1.8	2.2	1.2	1.9	1.5	1.4	1.2	3.1	
Country Club Neighborhood	1.3	3.2	2.0	1.2	1.6	2.0	2.0	4.1	
Country Living Neighborhood	2.1	3.3	1.6	2.2	1.9	1.9	1.6	4.2	
Hampton Village Neighborhood	2.6	1.3	2.4	2.6	2.2	2.2	2.5	1.5	
Harmony Hills Neighborhood	1.9	2.3	1.3	2.0	1.7	1.5	1.3	3.2	
Homewood Acres Neighborhood	0.4	2.3	0.7	0.5	0.9	0.9	0.7	3.2	
Johnson Neighborhood	1.5	0.8	1.0	1.6	1.2	0.9	0.9	1.7	
Justice Neighborhood	1.8	0.4	1.5	1.8	1.5	1.3	1.5	1.3	
Lincoln Heights Neighborhood	1.6	1.4	1.0	1.7	1.3	0.9	0.9	2.3	
Love's Creek Neighborhood	1.9	1.3	1.7	1.9	1.4	1.6	1.8	2.0	
North Glenn Apartments	1.9	2.3	1.3	2.0	1.6	1.5	1.3	3.2	
Sheffield Apartments	1.3	0.9	0.9	1.3	1.0	0.7	0.9	1.8	
Stonecrest Apartments	1.6	2.1	1.1	1.8	1.4	1.3	1.1	3.0	
Tripp Cottages Neighborhood	2.0	3.8	2.5	2.1	2.4	2.5	2.5	4.7	
Village Neighborhood	1.7	1.5	1.1	1.8	1.5	1.1	1.1	2.4	
Westmont Neighborhood	1.5	2.7	1.1	1.7	1.3	1.4	1.1	3.6	
Wheels Estates Neighborhood	2.2	3.4	1.7	2.3	2.0	2.0	1.7	4.2	
Windsor Arms Apartments	1.8	0.4	1.3	1.9	1.5	1.1	1.4	1.4	

Note: Unit of measurement for connection length is miles. Connections shorter than a half mile are highlighted in green; connections between half a mile and one mile are highlighted in orange.

Duia visinasia ya Cuisavia	Weighted
Prioritization Criteria	Score
Reported Pedestrian Crash Location	4.57
Connectivity/access to Proposed Facilities	4.00
Lower-income Areas (US Census)	3.93
Direct Access to/from an Existing Trail or Sidewalk	3.86
High Density Areas (US Census)	3.79
Park or Recreation Center Proximity (1/2 mile radius)	3.79
Low-vehicle Access Areas (US Census)	3.50
Elem., Middle, and High School Proximity (1/2 mile radius)	3.43
Limited English Proficiency Areas (US Census)	3.21
Minority Population Areas (US Census)	3.14
Top 1-3 Recommendations from 2013 Public Comments	3.14
Direct Access to Healthy Food Opportunities	3.14
Ethinicity/Origin Population Areas (US Census)	3.00
Direct Access to Major Shopping Centers/Business Areas/Downtown	2.93
High Chronic Disease Rate Areas	2.93
Areas of Elderly (65+ years old) Population	2.86
Areas of Youth (<18 years old) Population	2.71
Corresponds to Previous Recommendation (CTP, other plans, etc.)	2.57

Healthy Living Supplement





Benefits of Collaboration in Plan

- Addresses both planning and public health issues and brings fields together
- Value added by combining existing projects
- Targets Chatham's priority health issue
- Fosters town-county relationship
- Establishes partnership for future projects

Ongoing Partnership

- Constructing ADA curb ramps in downtown
 Siler City (prioritized from Pedestrian Plan)
- Safe Routes to School Project at a middle school in Siler City
- Healthy corner store project at Siler City tiendas
- Joint Use Agreement in town parks
- Gap analysis of regional bike routes

Long-term Planning Projects

- Future collaboration on town and county plans, including parks master plans
- Recently-formed Community Food Council
- Health Department staff representation on local planning advisory committees
- Greater awareness and partnership between planning and public health

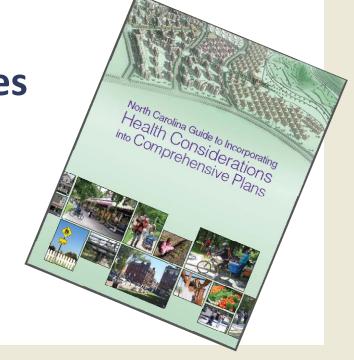
Ideas for Collaboration with Planners

Reach out to new partners

 Consider access to healthy foods, chronic disease rates and access to recreation facilities

Address priority health issues

 Look at resources from DHHS, APA and CDC



Takeaways

- Planners are public health practitioners
- Partnership between planning and public health can strengthen projects and open doors to new resources
- Innovation in both fields will depend on these partnerships

Old + Old = New

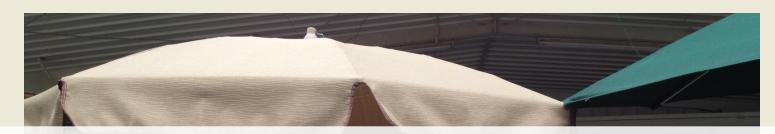
"Many of these novel combinations are really two conventional ideas in their own domains. You're taking established, well-accepted ideas, which is a wonderful foundation—you need that in science. But when you put them together: wow. That's suddenly something really different."

-Brian Uzzi, Kellogg School of Management

Thank you!

- The Town of Siler City
- Siler City Planning Department
- Adrienne Binder and Allison Young, UNC MPH graduates
- Alta Planning + Design
- CTG Region 5 Staff
- Health Department Health Promotion Team

Questions?



Mike Zelek Chatham County Public Health Department michael.zelek@chathamnc.org

